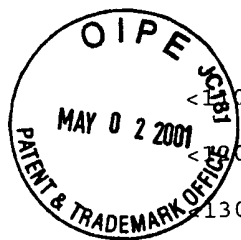


SEQUENCE LISTING



<10> Medical Research Council

<20> Obesity gene

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<140> 08/484,629

<141> 2000-01-18

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<151> 1998-12-08

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<213> Rattus sp.

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35 40 45
Asp Pro Ala Glu Leu Phe Val Leu Thr Glu Arg Tyr Arg Gln Tyr Arg
50 55 60
Glu Thr Val Arg Ala Leu Arg Arg Glu Phe Thr Leu Glu Val Arg Gly
65 70 75 80
Lys Leu His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Gln
85 90 95
Glu Ala Ile Arg Glu His Gln Glu Leu Met Ala Trp Asn Arg Glu Glu
100 105 110
Asn Arg Arg Leu Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
115 120 125
Gln Ala Gln Glu Leu Arg Gln Ala Glu Val Gln Ala Gln Arg Ala Gln
130 135 140
Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
145 150 155 160
Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
165 170 175
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 35 40 45
 Asp Pro Ala Glu Phe Phe Val Leu Met Glu Arg Tyr Gln His Tyr Arg
 50 55 60
 Gln Thr Val Arg Ala Leu Arg Met Glu Phe Val Ser Glu Val Gln Arg
 65 70 75 80
 Lys Val His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Leu
 85 90 95
 Lys Asp Ala Ala Glu His Arg Glu Leu Met Ala Trp Asn Gln Ala Glu
 100 105 110
 Asn Arg Arg Leu His Glu Leu Arg Ile Ala Arg Leu Arg Gln Glu Glu
 115 120 125
 Arg Glu Gln Glu Gln Arg Gln Ala Leu Glu Gln Ala Arg Lys Ala Glu
 130 135 140
 Glu Val Gln Ala Trp Ala Gln Arg Lys Glu Arg Glu Val Leu Gln Leu
 145 150 155 160
 Gln Glu Glu Val Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
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Val Glu Ala Ala Leu Asp Ser Arg Lys Asn Tyr Asn Trp Ala Ile Thr
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cggacgggtg cagacgcctc ccgccgtgga ccctgcggaa ttcttcgtgt tgaccgagcg 180
ctacggacag taccgggaga ccgtgcgcg tctcaggcta gagttcacgt tggatgtgcy 240
aaggaaattg cacgaggccc gagccgggggt tctggccgag cgcaaggcgc agcaggccat 300
cacggagcac cgggagctga tggcctggaa ccgggacgag aaccggcgaa tgcaggagct 360
acggatagcg aggttgacgc tggaagcaca ggcccaggag gtgcagaagg ctgaggccca 420
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35 40 45

Asp Pro Ala Glu Phe Phe Val Leu Thr Glu Arg Tyr Gly Gln Tyr Arg
 50 55 60
 Glu Thr Val Arg Ala Leu Arg Leu Glu Phe Thr Leu Asp Val Arg Arg
 65 70 75 80
 Lys Leu His Glu Ala Arg Ala Gly Val Leu Ala Glu Arg Lys Ala Gln
 85 90 95
 Gln Ala Ile Thr Glu His Arg Glu Leu Met Ala Trp Asn Arg Asp Glu
 100 105 110
 Asn Arg Arg Met Gln Glu Leu Arg Ile Ala Arg Leu Gln Leu Glu Ala
 115 120 125
 Gln Ala Gln Glu Val Gln Lys Ala Glu Ala Gln Arg Gln Arg Ala Gln
 130 135 140
 Glu Glu Gln Ala Trp Val Gln Leu Lys Glu Gln Glu Val Leu Lys Leu
 145 150 155 160
 Gln Glu Glu Ala Lys Asn Phe Ile Thr Arg Glu Asn Leu Glu Ala Arg
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 ttgggagaag gatgtaagca gactctgttc tcttctgaga aatatcaggt attgcagtca 240
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 aactctccca gaggagagcc atctaccttt gggacagatg ctctctgccc tgcactgcct 420
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| gctgt | cattg | gcggg | caata | cagccc | agcg | aactgt | gggtc | tccaag | gtgc | ccctc | gaccc | 900 |
| tccc | actcta | cccga | gactc | caggg | acgcg | atggg | ccaga | cagca | agagc | tccgc | cctacg | 960 |
| ggggc | ggggg | caggag | attc | ccgtg | atgct | cctcg | accac | ttccg | gacag | ggcgc | caggcg | 1020 |
| ctagc | tgtca | tgttg | cgggc | tttga | accgc | ctggc | gcgc | ggccc | ggggg | ccagc | ccccca | 1080 |
| accct | gtctc | ttctg | cccgt | gcgcg | ggcca | cggccc | cgcgt | cattc | tcggc | tcctt | tttcc | 1140 |
| tcgc | caggata | gctag | gttgc | agctc | gaagc | acagg | cccag | gagct | gcggc | aggct | gaggt | 1200 |
| ccagg | cccag | agggc | ccag | aggag | caggc | ttggg | tgcaa | ctgaa | agaac | aaga | agttct | 1260 |
| caaact | gcag | gtggg | ccgag | gtcgt | gagga | atgtg | gggtat | tggag | attcc | ggtg | agggag | 1320 |
| gctct | ggggg | gagca | gcaca | gggtg | tcaag | tgacc | agtct | tcagg | aggt | tctct | ctctg | 1380 |
| ctctg | cacac | acagag | tgcc | tccc | agacaa | tgg | tcaatga | aagg | ttacag | gctag | tattg | 1440 |
| ccgtg | tgaaa | cttga | aggtc | aggg | aaacca | taaat | gagaa | tggag | ctggt | tttatt | gtgt | 1500 |
| aagg | gagagt | gaca | aggtt | agag | agtcca | ccaccc | cgc | cctcccc | cgc | cccc | aatca | 1560 |
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| gagga | agagg | gatata | aatgg | ttgag | gtcac | ctagt | acagt | tgtg | ctggc | tattg | gtggg | 1680 |
| acact | caaag | gggccc | tggg | ctctt | tttgac | accct | tctta | aggt | gggcta | gagac | agtaa | 1740 |
| gttat | gcagg | cagcc | agctc | tgag | agatcc | cacgt | agcta | acctt | tctct | tccc | gtagga | 1800 |
| ggagg | ccaaa | aactt | catca | ctcgg | gagaa | cctgg | aggca | cggat | agaag | aggc | cttgga | 1860 |
| ctctc | ccaag | agtt | tataact | gggcg | gtcac | caaag | aagg | caggt | gttca | ggaact | gaga | 1920 |
| acagag | gcct | ctcag | ggcca | aata | aggaca | gtgct | tgcc | aggg | actgga | tattg | gggta | 1980 |
| gaaatt | ggtg | catccc | agga | gggtg | gcaca | gcctt | gtcca | gagc | agccc | cattc | attct | 2040 |
| agattt | ggca | ccagg | tatag | tacct | gttct | gacac | ccat | acaa | actccg | gacag | catta | 2100 |
| aactc | tggga | agttc | ctatc | acaca | gaaga | tcag | actgga | ctgt | cccctc | taga | agccaa | 2160 |
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| aact | attgga | aagca | aagcc | tttt | gttatg | tggct | tgtct | tttct | tgttg | taga | ataagt | 2280 |
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| acacg | ctttg | gggcg | gtgtc | caagc | ttgtg | aacaag | tagg | caagag | cgcc | tgg | gtttg | ta | 840 |
| gctgt | cattg | gcggg | caata | cagccc | agcg | aactgt | gggc | tccaag | gtgc | ccctc | gaccc | 900 | |
| tcccact | tcta | cccga | gactc | caggga | cgcg | atggg | ccaga | cagca | agagc | tccgc | cctacg | 960 | |
| ggggc | gggga | caggag | attc | ccgtg | atgct | cctcg | accac | ttccg | gacag | ggcgc | caggcg | 1020 | |
| ctagct | gtca | tgttg | cgggc | tttga | accgc | ctggc | cgcg | ggccc | ggggg | ccagc | ccccca | 1080 | |
| accct | gctcc | ttctg | cccgt | gcgcg | gccgc | aagacc | cgcc | acgat | ccgcc | tgcca | agtcc | 1140 | |
| aagg | tcgggc | gcgtg | aaaat | gcctc | ctgca | gtgg | accctg | cgga | attgtt | cgtgt | tgacc | 1200 | |
| gagcg | ctacc | gacagt | taccg | ggag | acggtg | cgcg | ctctca | ggtgt | gtgta | aaggg | caggc | 1260 | |
| ggcct | tcggc | gcccc | ctggg | aagt | gctggg | gctg | gaggat | gggt | gctcac | ttga | agccc | 1320 | |
| tcctc | accca | ggcg | agagtt | cacatt | ggag | gtgc | gaggga | aattg | cacga | ggccc | gagcc | 1380 | |
| gggg | ttctgg | ctgag | cgcga | ggcg | caagag | gccat | cagag | agc | accagga | gctga | tggcc | 1440 | |
| tgga | accggg | aggaga | aaccg | gagact | gcag | gaact | acggt | gcg | agagggc | cgggg | ctggg | 1500 | |
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| tagc | taggtt | gcag | ctcgaa | gcac | aggccc | aggag | ctgcg | gcag | gctgag | gtcc | aggccc | 1620 | |
| agagg | gcccc | ggagg | agcag | gcttg | gggtgc | aactg | aaaga | aca | agaagtt | ctcaa | actgc | 1680 | |
| aggt | ggggccg | aggt | cgtgag | gaat | gtgggt | attg | gagatt | ccggt | gaggg | agg | ctctggg | 1740 | |
| gagag | cagca | cagg | gtgtca | agtg | accagt | cttc | aggagg | cttct | ctctc | tgtct | gcac | 1800 | |
| acac | agagt | cctcc | cagac | aatgg | tcaat | gaaag | gttac | agg | ctag | tat | tgcc | gtgtga | 1860 |
| aact | tgaagg | tcagg | gaaac | cataa | atgag | aatg | gagctg | tttt | tattgt | gta | agg | gaga | 1920 |
| gtg | acaagg | tga | gagatc | cacc | accccc | cacct | cccc | cgc | cccc | caat | cagg | ttgtca | 1980 |
| cga | ttcgatt | cgtt | cttggg | ttgt | ggctga | gagat | ctgat | ggg | taattgt | ccg | agga | aga | 2040 |
| ggg | atataat | ggtt | gaggtc | acct | agtaca | gttgt | gctgg | cct | attggtg | gg | acact | caa | 2100 |
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| ggc | agccagc | tctg | agagat | ccc | acgtagc | taac | ctttct | ctt | ccc | gtag | gagg | aggcca | 2220 |
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